AMENDMENTS TO THE CLAIMS

The following is a complete, marked-up listing of revised claims with a status identifier in parenthesis, underlined text indicating insertions, and strike through and/or double-bracketed text indicating deletions.

LISTING OF CLAIMS

1. (Currently Amended) A method of producing biogas by anaerobic digestion of organic matter, comprising:

drying organic matter to a dry solids content of at least 50% by weight total solids (TS) and subsequently pelletising the same,

mixing the pelletised organic matter with a liquid to form a slurry, contacting the slurry with biogas-producing bacteria for digestion under anaerobic conditions in a reactor, and

digesting the slurry while producing biogas.

2. (Currently Amended) A method as claimed in claim 1, ~~in which~~wherein the organic matter is dried to a dry solids content of at least 70% by weight total solids (TS).

3. (Currently Amended) A method as claimed in claim 1, ~~in which~~wherein the dried and pelletised matter is ground before being mixed with said liquid to form the slurry.

4. (Currently Amended) A method as claimed in claim 1, ~~in which~~further comprising:

grinding the organic matter ~~is ground in~~ such ~~a manner~~ that at least 80% by

weight of the organic matter obtains a particle size of 0.5-3 mm.

5. (Currently Amended) A method as claimed in claim 1, ~~in which~~wherein an additional organic matter ~~of~~being a different type ~~other~~ than the ~~first-mentioned~~ organic matter is also digested in the reactor, at least 10% by weight of the total dry solids introduced into the reactor originating from the dried and pelletised organic matter.

6. (Currently Amended) A method as claimed in claim 1, ~~in which~~wherein the liquid with which the organic matter is mixed is essentially pure water.

7. (Currently Amended) A method as claimed in claim 1, ~~in which~~wherein the liquid with which the organic matter is mixed at least partly is digested sludge which is removed from the reactor.

8. (Currently Amended) A method as claimed in claim 1, ~~in which~~wherein the pelletised organic matter is mixed in a premixing tank with a liquid to form said slurry with a dry solids content of 15-45% by weight total solids(TS), and this slurry is then introduced into the reactor to be digested at a dry solids content of 5-10% by weight total solids (TS).

9. (Currently Amended) A method as claimed in claim 1, ~~in which~~wherein the dried and pelletised organic matter is dried green matter, such as dried agricultural products.

10. (Currently Amended) A method as claimed in claim 1, ~~in which~~wherein the

organic matter is ground before being pelletised.

11. (Withdrawn – Currently Amended) A device for producing biogas by anaerobic digestion of organic matter, said device comprising a sealable, essentially gas-tight reactor having an inlet for organic matter and outlets for produced biogas and formed digested sludge, wherein the device comprises a premixing tank for mixing organic matter dried to a dry solids content of at least 50% by weight total solids (TS)~~TS~~ and pelletised, with a liquid to a slurry, and a feed pipe for feeding the slurry to the reactor in which the slurry is contacted with biogas-producing bacteria.

12. (Withdrawn) A device as claimed in claim 11, in which a mill is arranged for grinding the dried and pelletised organic matter before being introduced into the premixing tank.

13. (Withdrawn) A device as claimed in claim 12, in which the mill is adapted to grind the dried and pelletised organic matter so that at least 80% by weight of the organic matter obtains a particle size of 0.5 - 3 mm.

14. (Withdrawn) A device as claimed in claim 11, in which a supply pipe is arranged for feeding digested sludge from the reactor to the premixing tank.